

Atlantic Richfield Company

Jack Oman
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January 5, 2015

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Dave Seter
Remedial Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne Street, SFD-9-1
San Francisco, CA 94105

**Subject: December 2014 Monthly Report, Yerington Mine Site, Lyon County, Nevada:
Administrative Order for Remedial Investigation and Feasibility Study (RI/FS),
CERCLA Docket No. 9-2007-0005; Administrative Order on Consent, CERCLA
Docket No. 09-2009-0010**

Dear Mr. Seter:

Pursuant to the above referenced orders issued by the U.S. Environmental Protection Agency - Region 9 (EPA), Atlantic Richfield Company (ARC) has prepared this December 2014 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

December 2014 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent activities. Cameras at various locations (e.g., Main and Arimetco gates, entrances to buildings) indicated no activity of concern.
- Wind dancers, bird deterrent flags, Wetland Wailer signs and Bird Gard towers continued to be deployed in accordance with the current EPA-approved bird mitigation approach. Balloons remained in place over FMS Evaporation Ponds B and C. To reduce birds from becoming habituated to wind dancers and flags, these devices were re-located as needed. Bird Gard towers 'A', 'B' and 'C' remained in operation during November.
- Damaged bird mitigation flags and wind dancer socks from high wind events were replaced.
- Continued the EPA-approved bird mitigation schedule, with at least three monitoring visits per day at all ponds plus a fourth monitoring at the Arimetco FMS ponds. Observations were made within half an hour of dawn and dusk, with the other visit(s) conducted mid-day.
- PWS Pond water levels: North Cell = 0.0 feet; Middle Cell = 0.0 feet; South Cell = 0.0 feet.
- Arimetco FMS pond levels: Phase 1 Pond = 4.15 feet; FMS Evaporation Pond A = 9.22 feet; FMS Evaporation Pond B = 4.16 feet; FMS Evaporation Pond C = 4.55 feet; VLT Pond = 11.04 feet; Slot Pond = 16.30 feet. The freeboard level in FMS Evaporation Pond A on November 30 was approximately 1.02 feet. See attached monitoring data.
- Approximately 23,951 gallons of solution were pumped from the leak detectors including 11,979 gallons from the VLT Pond and 8,640 gallons from the Slot Pond. Approximately 281,633 gallons were pumped from the leak detectors since January 1, 2014. See attached monitoring data.
- During a high wind event on December 11, flows were diverted from FMS Evaporation Pond C to the VLT pond to prevent unexpected winds from blowing solutions out of containment.

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December 2014 Activities - Continued

Site Characterization Activities

- Monthly groundwater elevation measurements were obtained December 29-31 from new wells and wells with pressure transducers.
- The pit lake pressure transducer malfunctioned, and will need to be checked out and recalibrated.
- The evaporation pan located at PW-6 was decommissioned and placed in storage for the winter.
- No changes to the Bottled Water or Domestic Well Monitoring Programs in December.
- The 3Q 2014 domestic well monitoring report (DWMR) was transmitted on December 16.
- Continued to compile data for inclusion in the 3Q 2014 groundwater monitoring report (GMR).
- Initiated the compilation of domestic well and groundwater data for inclusion in the 2014 DWMR and GMR, respectively.
- Continued the compilation of field and laboratory data for inclusion in the data summary report (DSR) for the supplemental monitor well installation program, including the evaluation of 3Q 2014 hydrologic tracer data (all remaining ^{34}S and ^{18}O in dissolved sulfate tracer data were received).
- Transmitted the Process Areas (OU-3) Soils Characterization DSR on December 12.
- Transmitted bid solicitations to five qualified drilling contractors for the characterization work to be performed around the Evaporation Ponds.
- Transmitted the Geochemical Characterization Data Summary Report on December 30.
- Continued reviewing data quality objectives (DQOs) for the Wabuska Drain (OU-7) RI Work Plan.
- Routine database management activities in support of Site investigations and monitoring.
- Attended a Yerington Community Meeting on December 4.

Planned January/February 2015 Activities

Site Security and O&M Activities

- Continue routine Site O&M, security and bird deterrent activities.
- Initiate the compilation of data for inclusion in the Annual FMS O&M Report.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Repair and/or re-calibrate the pit lake pressure transducer.
- Continue the Bottled Water Program.
- Perform the 1Q 2014 groundwater monitoring event in February.
- Transmit the 3Q 2014 GMR, and compile data for the 2014 Annual DWMR and GWMR.
- Continue discussions with EPA regarding the proposed parameter reduction list for routine quarterly groundwater sampling.
- Re-develop three monitor wells that exhibited elevated turbidity during groundwater sampling.
- Initiate work on the Bedrock Work Plan including the conceptual site model.
- Review drilling contractor bid forms and associated information to support the selection of a driller to perform the Evaporation Ponds Phase 1 FSAP.
- Continue to review DQOs for the Wabuska Drain (OU-7) RI Work Plan.

Please contact me at (714) 228-6774 or via e-mail at jack.oman@bp.com if you have any questions or comments about the December 2014 monthly report.

Sincerely,



Jack Oman
Project Manager

Attachment

cc: Harry Ball, EPA – via electronic mail
Dante Rodriguez, EPA – via electronic mail
Andrew Helmlinger, EPA – via electronic mail
Tom Dunkelman, EPA – via electronic mail
Jeff Collins, NDEP – via electronic mail
Jeryl Gardner, NDEP – via electronic mail
Tom Olsen, BLM – via electronic mail
Dan Newell, City of Yerington – via electronic mail
Phyllis Hunewill – via electronic mail
Virgil Arellano, Lyon County Commissioner – via electronic mail
Rob Loveberg, Lyon County Planning Department – via electronic mail
Tom Grady, Nevada State Assembly – via electronic mail
Chairwoman Howard, YPT – via electronic mail
Ginny Hatch, YPT – via electronic mail
Deborah Dunn, YPT – via electronic mail
Dietrick McGinnis, McGinnis and Associates – via electronic mail
Tom Bowden, Ridolfi, Inc. – via electronic mail
Chairwoman McFalls, WRPT – via electronic mail
Tad Williams, WRPT – via electronic mail
Ron Halsey, Atlantic Richfield Company – via electronic mail
James Nolan, Atlantic Richfield Company – via electronic mail
James Lucari, Atlantic Richfield Company – via electronic mail
Patricia Gallery, Atlantic Richfield Company – via electronic mail
Brian Johnson, Atlantic Richfield Company – via electronic mail
John Batchelder, EnviroSolve – via electronic mail
Jim Chatham, Atlantic Richfield Company – via electronic mail
Rich Curley, Curley and Associates, LLC – via electronic mail
Bill Duffy, Davis Graham & Stubbs – via electronic mail
Tom Patton, Singatse Peak Services, LLP – via electronic mail
Steve Dischler, Singatse Peak Services, LLP – via electronic mail
Taurus Massey, Singatse Peak Services, LLP – via electronic mail
David Peri, Peri and Sons – via electronic mail
John McMillan, CBI – via electronic mail
Julian Isham, CBI – via electronic mail
Victor Early, Tetra Tech – via electronic mail
Colin Lee, Tetra Tech – via electronic mail
Ken Greene, CH2M Hill – via electronic mail
Peggy Pauly, YCAG – via electronic mail
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